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1 The problems 3-SAT and 2-SAT are

- A) both in F
- B) both NP-complete
- C) NP-complete and in P respectively
- D) undecidable and NP-complete respectively

Answer: (C) 2 Consider the following relation schema pertaining to a students database:

Student (rollno, name, address)

Enroll (rollno, courseno, coursename)

where the <u>primary keys</u> are shown underlined. The number of tuples in the Student and Enroll tables are 120 and 8 respectively. What are the maximum and minimum number of tuples that can <u>be present</u> in (Student * Enroll), where '*'denotes natural join?

- A) 8, 8
- B) 120, 8
- C) 960, 8
- D) 960, 120

Answer: (C)

- 3 Consider a relation scheme R = (A, B, C, D, E, H) on which the following functional dependencies hold: (A -> B, BC -> D, E -> C, D -> A). What are the candidate keys of R?
- A) AE, BE
- B) AE, BE, DE
- C) AEH, BEH, BCH

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D) AEH, BEH, DEH Answer : (D)

4 The goal of structured programming is to

A) have well indented programs

- B) be able to infer the flow of control from the compiled code
- C) be able to infer the flow of control from the program text
- D) avoid the use of GOTO statements

Answer: (C)

5 The tightest lower bound on the number of comparisons, in the worst ease, for comparison-based sorting is of the order of

A) n

B) n 2

C) n log n

D) n log² n

Answer: (B)

6 A circuit outputs a digit in the form of 4 bits. 0 is represented by 0000,1 by 0001,..., 9 by 1001. A combinational circuit is to be designed which takes these 4 bits as input and outputs 1 if the digit ³ 5, and 0 otherwise. If only AND, OR and NOT gates may be used, what is the

minimum number of gates required A) 2 B) 3

C) 4 D) 5

Answer: (C)

7 WA and B are the only two stations on an Ethernet. Each has a steady queue of frames to send. Both A and B attempt to transmit a frame, collide, and A wins the first backoff race. At the end of this successful transmission by A, both A and B attempt to transmit and collide. The probability that A wins the second backoff race is

A) 0.5 B) 0.625 C) 0.75 D) 1.0

Answer: (A)

8 If 73 $_{\rm X}$ (in base-x <u>number system</u>) is equal to 54 $_{\rm y}$ (in base-y number system), the possible values of x and y are

A) 8, 16 B) 10, 12 C) 9, 13

D) 8, 11 **Answer : (D)**

9 In a packet switching network, packets are routed from source to destination along a single path having two intermediate nodes. If the message size is 24 bytes and each packet contains a header of 3 bytes, then the optimum packet size is

A) 4 B) 6 C) 7

D) 9 **Answer : (D)**

10 A Priority-Queue is implemented as a Max-Heap. Initially, it has 5 elements. The level-order traversal of the heap is given below: 10, 8,5,3,2 Two new elements 1 and 7 are inserted in the heap in that order. The level-order traversal of the heap after the insertion of the elements is

A) 10,8,7,5,3,2,1 B) 10,8,7,2,3,1,5 C) 10,8,7,1,2,3,5 D) 10,8,7,3,2,1,5 **Answer: (D)**

11 Consider an operating system capable of loading and executing a single sequential user process at a time. The disk head scheduling algorithm used is First Come First Served (FCFS). If FCFS is replaced by Shortest Seek Time First (SSTF), claimed by the vendor to give 50% better benchmark results, what is the expected improvement in the I/O performance of user programs?

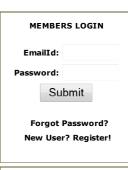
A) 50%

B) 40%

C) 25%br> D) 0%

Answer : (D)





A D V E R T I S E M E N T

12 How many distinct binary search trees can be created out of 4 distinct keys?

A) 5

B) 14 C) 24

D) 42 Answer : (B)

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